REMARKS

Claims 1-57 are now pending in the application. The Examiner is respectfully requested to reconsider and withdraw the rejection(s) in view of the amendments and remarks contained herein.

Supplemental IDS

A supplemental information disclosure statement was filed on January 13, 2004 in connection with the present application. A copy of this submission along with a return postcard evidencing receipt is enclosed for your convenience. If not already done so, please consider the references cited in this submission and forward acknowledge of the same to the Applicant.

REJECTION UNDER 35 U.S.C. § 101

Claims 1-57 stand rejected under 35 U.S.C. §101 as being directed to non-statutory subject matter. This rejection is respectfully traversed.

Applicant's invention is directed generally to an apparatus for processing trading orders. Of particular interest, pending claims recite a computer system that receives orders for different resources from different users. The computer system then calculates an array of coefficients each representing the proportion of a particular order that is to be satisfied. This claimed subject matter is analogous to the subject matter at issue in State Street Bank & Trust v. Signature Financial Group {cite}. In this case, the Federal Circuit held that the transformation of data by a machine through a series of mathematical calculations into a final share price constitutes a practical application of a mathematical

algorithm because it produces a useful, concrete and tangible result. Likewise, the optimized coefficients representing the portion of an order that is to be satisfied constitutes a practical application. It is not necessary that post-computer process activity be recited in the claims. Contrary to the Examiner's assertion, Applicant believes that pending claims are directed to statutory subject matter.

The Examiner's attention is also drawn to Claim 3 of the present application. This claim further recites that the processing means process an order based on the optimized coefficients for that order. For at least these reasons, Applicant respectfully requests reconsideration and withdrawal of this rejection.

REJECTION UNDER 35 U.S.C. § 112

Claims 6, 24, 33, 52 and 55 stand rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point and distinctly claim the subject matter which Applicant regards as the invention. This rejection is respectfully traversed. Claims 6, 33, 52 and 55 have been amended to provide proper antecedent basis for the current exchange rate, thereby overcoming this rejection. Therefore, Applicant respectfully requests reconsideration and withdrawal of this rejection.

REJECTION UNDER 35 U.S.C. § 102

Claims 1-4, 7-17, 19-21, 25, 27-31, 34-44, 46-49, 53 and 56-57 stand rejected under 35 U.S.C. §102 as being anticipated by U.S. Patent No. 5,845,266 (Lupien). This rejection is respectfully traversed.

Lupien is directed generally to an automated crossing network (also known as a matching system) for trading instruments. The disclosed mechanism maximizes the total mutual satisfaction of a set of traders based on individual satisfaction density profiles. Traders are either buyers or sellers of one asset against another asset. Satisfaction profiles are represented as a data pairs, where the first datum is the number of units of a first asset is being bought by a buyer and the second datum is the price or number of units of the second asset being exchanged for one unit of the first asset. Thus, satisfaction profiles are matrices. The automated mechanism commences with a set of buyers and sellers defining and communicating a matrix to each other. The outcome is then a set of trades or transactions between a buyer of the second asset against the first and a seller of the second asset against the first. Thus, the overall teaching of this reference is based on a matrix whose elements represent the degree of satisfaction to trade an instrument.

In contrast, Applicant's invention is directed generally to an architecture suitable for a global matching system. Applicant's claimed invention defines a specific technical configuration of data structures and servers which are uniquely suited to a global matching system and is not suitable for a binary matching system or pool allocation system. Of particular interest, Claim 1 recites "an array of coefficients each representing the proportion of a particular order that is to be satisfied" in combination with other elements of the claim. The satisfaction density profiles are not analogous to this array of coefficients. Thus, Lupien fails to teach or suggest an array of coefficients as recited in the pending claims. It is noteworthy that a concurring conclusion was reached by the European Patent Office in an opposition proceeding of a counterpart

European patent. Therefore, we feel that the pending claims define patentable subject

matter over the cited reference. Accordingly, Applicant respectfully requests

reconsideration and withdrawal of this rejection.

CONCLUSION

It is believed that all of the stated grounds of rejection have been properly

traversed, accommodated, or rendered moot. Applicant therefore respectfully requests

that the Examiner reconsider and withdraw all presently outstanding rejections. It is

believed that a full and complete response has been made to the outstanding Office

Action and the present application is in condition for allowance. Thus, prompt and

favorable consideration of this amendment is respectfully requested.

If the Examiner believes that personal communication will expedite prosecution

of this application, the Examiner is invited to telephone the undersigned at (248) 641-

1600.

Respectfully submitted,

Dated: September 22, 2006

By: Timothy D. MacIntyre

Reg. No. 42824

HARNESS, DICKEY & PIERCE, P.L.C.

P.O. Box 828

Bloomfield Hills, Michigan 48303

(248) 641-1600

TDM/drl

Please type a plus sign (+) inside this		Application	n Number	09/508,	778
🏿 🎢 TRANSMITT	\L	Filing Date		May 15,	2000
⊭ ^o FORM		First Name	ed Inventor	Benedic	t Seifert et al.
(to be used for all correspondence aft	er initial filing)	Group Art Unit 27		2768	
		Examiner N	lame		
Total Number of Pages in This Submis	sion	Attorney Do	ocket Number	3711-00	0105
	ENCL	OSURES (ched	ck all that apply)		
Fee Transmittal Form		ment Papers Application)		After Grou	Allowance Communication t p
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Response to Missing Parts under 37 CFR 1.52 or 1.53					
SIG	NATURE OF	APPLICANT	, ATTORNEY, O	R AGENT	
Firm	y & Pierce, P.L	Attorney	/ Name uke Taylon		Reg. No. 31,306

CERTIFICATE OF MAILING/TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service as express mail in an envelope addressed to: Director of the U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on the date indicated below.

January 13, 2004

Date

Typed or printed name	W.R. Duke Taylor	\wedge	Express Mail Label No.	EV 406 075 776 US (1/13/2004)
Signature	W.Z.O		Date	January 13, 2004



Applicant: Benedict Seifert et al. Case No.: 3711-000105

Serial No.: 09/508,778 Filing Date: May 15, 2000

Title:

ORDER PROCESSING APPARATUS AND METHOD

Please acknowledge receipt of:

Transmittal Form (in duplicate), Supplemental Information
Disclosure Statement, one (1) sheet of Form PTO-1449, five

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By stamping and returning to Harness, Dickey & Pierce, P.L.C.

USPTO Date Stamp

Due:

Date Mailed: 1/13/04

Attorney: WRDT

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

09/508,778

Filing Date:

May 15, 2000

Applicant:

Benedict Seifert et al.

Group Art Unit:

2768

Examiner:

Title:

ORDER PROCESSING APPARATUS AND METHOD

Attorney Docket:

3711-000105

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. <u>COPIES</u>

A. Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were

previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

,	C. Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.
,	D. This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form 1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g).)
III.	CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)
	A. \(\subseteq \) Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).
	B. A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):
	1. See the attached foreign patent office communication from a counterpart foreign application:
	2. English translations are provided:
	3. Other:
	C. The following additional information is provided for the Examiner's consideration.

IV.	CROSS REFERENCE	TO RELATED APPLICA	ATION(S)	
	contain(s) subject matt	er that may be related lication(s) to the Exam	llowing co-pending appl d to the present applica iner's attention, Applican 5 U.S.C. § 122.	tion R
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V.	THIS IDS IS BEING FILI	ED UNDER		
,	A. 🗌 37 C.F.R. § 1.97(b): (check <u>only</u> one box)		
	than a continued	months of the filing da prosecution application e or certification is requ	ate of a national application under § 1.53(d) (37 dired.	ion other C.F.R. §
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	B. [] 37 C.F.R. § 1.97(c)	: (check <u>only</u> one box)		
	before the mailing 1.113, a Notice of otherwise closes p	Allowance under 37 (l Office Action under 37 (C.F.R. § 1.311, or an act	C.F.R. § tion that
	1. No certification by 37 C.F.R. § 1.17	on; therefore, a fee in th	ne amount of \$180.00 is r	equired
	2. See the certif	ication below. No fee i	s required.	
	C. 37 C.F.R. § 1.97(d)	:		

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee. 1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p). CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box) VI. The undersigned hereby certifies that: A. \(\) each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII. if applicable; or B. no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37) C.F.R. § 1.97(e)(2)). C. \square some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS. VII. STATEMENT UNDER 37 C.F.R. 1.704(d) The undersigned hereby states that: each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VI. PAYMENT OF FEES (check only one box)

A. A check in the amount of \$180.00 is enclosed for the above identified fee.

B. Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Dated: JAN 12,2004

Respectfully submitted,

W.R. Duke Taylor Reg. No. 31,306

Harness, Dickey & Pierce, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600

WRDT/lkj



FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 1

ATTORNEY DOCKET NO.	SERIAL NO.	
3711-000105	09/508,778	
APPLICANT		
Benedict Seifert et al.		
FILING DATE	GROUP .	
May 15, 2000	2768	

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		3,573,747	4/1971	Adams et al.		
2.		4,412,287	10/1983	Braddock, III		
3.		4,903,201	2/1990	Wagner		
4.		5,136,501	8/1992	Silverman et al.		
5.		5,563,783	10/1996	Stolfo et al.		

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	on No
1.							

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)				
Ref. Desig.	Examiner's Initials				
1.					

Examiner:	D . O
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	Date Considered.